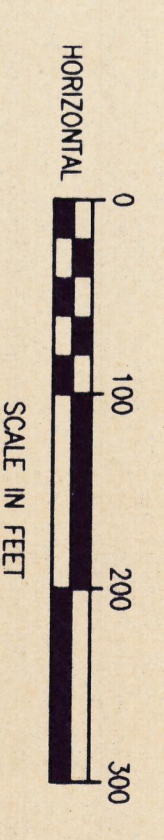


DRAINAGE AREA	ACRES	RUNOFF COEFFICIENT (C _r)	TIME OF CONCENTRATION (MIN.)	RAINFALL INTENSITY (IN./HR.)	STORM WATER FLOW (c.f.s.)	DESIGN STORM FREQUENCY (years)
A	2.45	0.70	10.00	8.74	15.0	100
B	3.66	0.70	10.00	8.74	22.4	100
C	1.58	0.70	10.00	8.74	9.7	100
D	0.90	0.70	10.00	8.74	5.5	100
E	1.87	0.70	10.00	8.74	11.4	100

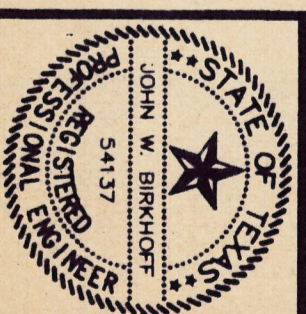


STORM SEWER CALCULATIONS

Runoff Collection Point	Upstream Station	Downstream Station	Distance Between Points (Feet)	Incremental Drainage Area (Ac)	Runoff (CFS)	Incum. CA (Ac)	Accum. Runoff (CFS)	Time at Upstream Station (Min)	Design Storm Intensity (In./Hr.)	Runoff (CFS)	Slope of Hydraulic Gradient (1/100)	No. of Storm Pipes	Selected Storm Pipe Size (In.)	Velocity (Ft./Sec)	Head Loss (Feet)	Velocity (Ft./Sec)	Flow Time (Min)	Time at Downstream Station (Min)
1	1	2	154.1	0.70	3.96	2.96	10.00	10.00	8.74	22.40	0.0200	1	30	9.31	1	0.00	0.28	10.28
2	2	3	154.1	0.70	3.96	5.92	10.00	10.00	8.74	31.73	0.0200	1	30	9.45	1	0.00	0.12	10.40
3	3	4	154.1	0.70	3.96	8.88	10.00	10.00	8.74	46.65	0.0200	1	30	9.59	1	0.00	0.21	10.61
4	4	5	154.1	0.70	3.96	12.84	10.00	10.00	8.74	61.89	0.0200	1	30	9.73	1	0.00	0.25	10.86
5	5	6	154.1	0.70	3.96	16.80	10.00	10.00	8.74	77.13	0.0200	1	30	9.87	1	0.00	0.29	11.15
6	6	7	154.1	0.70	3.96	20.76	10.00	10.00	8.74	92.37	0.0200	1	30	10.01	1	0.00	0.33	11.48
7	7	8	154.1	0.70	3.96	24.72	10.00	10.00	8.74	107.61	0.0200	1	30	10.15	1	0.00	0.37	11.85
8	8	9	154.1	0.70	3.96	28.68	10.00	10.00	8.74	122.85	0.0200	1	30	10.29	1	0.00	0.41	12.26
9	9	10	154.1	0.70	3.96	32.64	10.00	10.00	8.74	138.09	0.0200	1	30	10.43	1	0.00	0.45	12.71
10	10	11	154.1	0.70	3.96	36.60	10.00	10.00	8.74	153.33	0.0200	1	30	10.57	1	0.00	0.49	13.20
11	11	12	154.1	0.70	3.96	40.56	10.00	10.00	8.74	168.57	0.0200	1	30	10.71	1	0.00	0.53	13.75
12	12	13	154.1	0.70	3.96	44.52	10.00	10.00	8.74	183.81	0.0200	1	30	10.85	1	0.00	0.57	14.36
13	13	14	154.1	0.70	3.96	48.48	10.00	10.00	8.74	199.05	0.0200	1	30	10.99	1	0.00	0.61	15.03
14	14	15	154.1	0.70	3.96	52.44	10.00	10.00	8.74	214.29	0.0200	1	30	11.13	1	0.00	0.65	15.78
15	15	16	154.1	0.70	3.96	56.40	10.00	10.00	8.74	229.53	0.0200	1	30	11.27	1	0.00	0.69	16.59
16	16	17	154.1	0.70	3.96	60.36	10.00	10.00	8.74	244.77	0.0200	1	30	11.41	1	0.00	0.73	17.46

THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.

DATE: 11/21/95



TOWN OF ADDISON, TEXAS

DRAINAGE IMPROVEMENTS

DRAINAGE AREA MAP

SHIMEK, JACOBS & FINKLEA
CONSULTING ENGINEERS
Dallas, Texas

DESIGNED BY: J.W.B.
DRAWN BY: R.J.L.

PROJECT: 95144
DATE: DECEMBER, 1995

SHEET NO. 8
OF 8 SHEETS